

## PATENT OPERATIONS

## 4. CHANGES IN THE SPECIFICATION

1. Page 1, line 34 add "of" between --both--and--which--
2. Page 15, line 20 delete "and reference plane P1S"  
after --X1-- and before --and they--
3. Page 16, line 21 delete "and reference plane P1S",  
after --X1S-- and before-- . Light--
4. Page 16, line 35 and  
Page 17, line 1 delete ", reflective surface 12BS,  
refractive surface 14BS and lens 15BS" between --14S--  
and -- . Rear--
5. Page 16 line 34 delete ", " after --13S-- and substitute  
"and"
6. Abstract fourth line from bottom delete "plane"  
between --ence-- and -- . An optional-- and  
substitute therefore "axis"

## BASIS FOR CHANGES IN THE SPECIFICATION

1. Correct grammar.
2. Correct typing error and conform with drawings.
3. Correct typing error and conform with drawings.
4. Correct typing error and conform with drawings.
5. Correct typing error and conform with drawings.
6. Correct typing error basis for change page 3 lines  
34-35.

- SUPPLEMENTAL TABLE II AXIAL DESIGN -APPLICATION NO.DEFINING CHARACTERISTICS

08/631,821  
 Axial Light Concentrating  
 Lighting Device  
 Filing date 4/10/96  
 Examiner: Haynes M. (703-308-5460)  
 PTO office action dated 06/02/97 ans.  
 on 12/02/97 - Supplemental amendment A  
 prior to evaluation submitted on  
 2/04/98

Same as 08/642,497  
 +  
 Reflecting surface having a para-  
 bolic line having a parabolic  
 line axis intersecting the refer-  
 ence axis

08/642,661  
 Converging Reflector Axial  
 Light Concentrating Light-  
 ing Device  
 Filing date 5/13/96  
 Examiner: Williams J. (703-305-4469)  
 (fax-703-308-7382)  
 PTO office action dated 5/27/97 ans.  
 on 11/27/97) - Supplemental amendment A  
 prior to evaluation submitted on  
 2/04/98

Same as 08/642,497  
 +  
 Reflecting surface having an el-  
 liptical line having an  
 elliptical line axis parallel to  
 the reference axis

08/647,461  
 Angled Converging Re-  
 flector Axial Light  
 Concentrating Lighting  
 Device  
 Filing date 5/03/96  
 Examiner: Mark Haynes (703-308-5460)  
 PTO office action dated 06/02/97 ans.  
 on 12/02/97 - Supplemental amendment A  
 prior to evaluation submitted on  
 2/04/98

Same as 08/642,497  
 +  
 reflecting surface having an el-  
 liptical line having an  
 elliptical line axis intersecting  
 the reference axis

08/642,497  
 Bent Refractor Axial  
 Light Concentrating  
 Lighting Device  
 Filing date 5/03/96  
 Examiner: Matthew Spark (703-306-2766)  
 PTO office action dated 4/18/97 ans.  
 on 10/18/97 - Supplemental amendment  
 prior to evaluation submitted on  
 1/28/98 - Supplemental amendment A  
 prior to evaluation submitted on  
 2/04/98

Reflecting surface having a re-  
 flective means to form light con-  
 verging about reference axis  
 +  
 Refracting surface having a re-  
 fractive means to bring reflected  
 light towards parallelism with re-  
 ference axis

It is noteworthy to realize that application 08/642,497 repre-  
 sents the broadest application of the concept of increasing the  
 efficiency by reflecting the light to converge about the refer-  
 ence axis. Application 08/631,821 reads on application 08/642,497  
 but it adds the requirement that the reflector also be developed  
 from a parabolic line. Application 08/642,661 reads on applica-  
 tion 08/642,497 but it adds the requirement that the reflector be  
 developed using an elliptical line with its axis coincident with  
 the reference axis. Application 08/647,461 reads on 08/642,497  
 but it adds the requirement that the reflector is developed using  
 an elliptical line with its axis intersecting the reference  
 plane.

- SUPPLEMENTAL TABLE I PLANER DESIGN -APPLICATION NO.DEFINING CHARACTERISTICS

08/628,288 Planer Light Concentrating Lighting Device Filing date 4/04/96 Examiner: Matthew Spark (703-306-2766) PTO action dated 4/28/96 answered on 8/07/97 amended on 11/28/97 Supplemental amendment A prior to evaluation to be submitted on 2/98	Same as 08/643,213 + Reflective surface having a parabolic line
08/642,596 Converging Reflector Planer Light Concentrating Lighting Device  Filing date 5/03/96 Examiner: Matthew Spark (703-306-2766) PTO action dated 4/28/97 answered on 10/28/97 Supplemental amendment A prior to evaluation to be submitted on 2/98	Same as 08/643,213 + Reflecting surface having a elliptical line having an elliptical line axis paral- lel to the reference plane
08/647,459 Angled Converging Re- flector Planer Light Concentrating Lighting Device  Filing date 5/03/96 Examiner: Matthew Spark (703-306-2766) Art Unit - 3406 PTO action dated 8/21/97 to be answered on 2/98	Same as 08/643,213 + Reflecting surface having an el- liptical line having an elliptical line axis intersecting the reference plane
08/643,213 Bent Refractor Planer Light Concentrating Light- ing Device Filing date 5/03/96 Examiner: Matthew Spark (703-306-2766) PTO action dated 8/21/97 answered on 1/21/98 Supplemental amendment A prior to evaluation to be submitted on 2/98	Reflecting surface having a re- flective means to form light con- verging about plane + Refracting surface having a re- fractive means to bring reflected light towards parallelism with re- ference plane

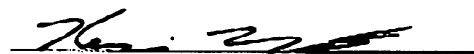
It is noteworthy to realize that application 08/643,213 represents the broadest application of the concept of increasing efficiency by reflecting the light to converge about the reference plane. It achieves this by using a reflector developed about the reference plane. This is easily achieved by a parallel movement of a line about the reference plane. Application 08/628,288 reads on 08/643,213 but adds the requirement that the reflector be developed using a parabolic line. Application 08/642,596 reads on 08/643,213 but adds the requirement that the reflector be developed by a movement of an elliptical line about the reference plane with the elliptical line axis parallel to the reference plane. Application 08/647,459 reads on 08/643,213 but adds the requirement that the reflector be developed by a movement of an elliptical line about the reference plane with the elliptical line axis intersecting the reference plane.

a reflective surface,

It appears that all matters have been addressed satisfactorily, and that the case is now in condition for a complete allowance, and the same is respectfully urged.

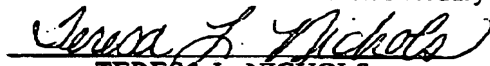
However, if the examiner believes otherwise, or has any comments or questions, or has any suggestions for putting the case in condition for final allowance, he is respectfully urged to contact the undersigned at the telephone number below, so that any expeditious resolutions may be effected and the case passed to issue promptly.

Respectfully submitted,

  
KEVIN MCDERMOTT, INVENTOR  
PH. 410-775-7122

P.S. A return postcard is enclosed.

I, Teresa L. Nichols, hereby certify that this correspondence, consisting of 15 pages total, is being faxed to fax # 703-308-7382 on February 24, 1998 at approximately 11:00 a.m.

  
TERESA L. NICHOLS